

**SOLUTIONS FOR
REGULATORY AIR QUALITY MONITORING**



MEASURING LOCATIONS AND SOURCES (ULTRAFINE PARTICLES, PM_{2.5}, PM₁₀, GASES)



- 1 **TRAFFIC:** Anthropogenic, combustion process, non-exhaust emission
- 2 **URBAN:** Anthropogenic, combustion process, industry, biosphere
- 3 **URBAN BACKGROUND:** Anthropogenic, domestic combustion, industrial activities, biosphere
- 4 **RURAL:** Biosphere, agriculture
- 5 **AIRPORTS:** Combustion processes, non-exhaust emissions



Scan here to find out more about our solutions for environmental monitoring networks!

SOLUTIONS FOR RELIABLE MEASUREMENTS AT ALL LOCATIONS



PROCEAS AIR | LASER INFRARED SPECTROMETER

Multi-component gas analyzer for ambient air applications: greenhouse gases, ammonia precursor of PM, air pollution. Designed for low to medium gas concentrations. **Optical Feedback Cavity Enhanced Absorption Spectroscopy + Low Pressure Sampling**



EDM 465 NANO: COUNTS

All-in-one CPC in mobile weatherproof housing, designed for 24/7 nanoparticle counting. Various calibrations possible, e.g. for ambient real-time monitoring of UFP to CEN EN 16976. **Condensation particle counting**



5421-TR-CEN 19" CPC NANO: COUNTS

CPC for continuous measurement operation in AAQMS. Fulfills the harmonized, standardized nanoparticle counting according to CEN EN 16976. Sampling system with integrated Nafion® drying. **Condensation particle counting**



5420-TR-CEN 19" SMPS+C NANO: COUNTS + SIZE

Scanning mobility particle spectrometer for 24/7 number and size determination of nanoparticles in AAQMS according to CEN/TS 17434:2020. Sampling system with integrated Nafion® drying. **Electrical classification with condensation particle counting**



EDM 264 | MOBILE FINE DUST MONITOR

Optical aerosol spectrometer in weatherproof housing for real-time determination of all dust mass fractions, the particle number size distribution and meteorological conditions. **Scattered light detection of individual particles (full-flow analysis)**



EDM 264-SVC | MOBILE FINE DUST MONITOR

See EDM 264 for measurement performance and value output. Special sample pipe removes semi-volatile compounds. The SVC content is determined in combination with the EDM 264. **Scattered light detection of individual particles (full-flow analysis), SVC removal through catalytic process**



EDM 280 | STATIONARY PM MEASUREMENT EN 16450

QAL1-certified 24/7 real-time particulate matter monitor for TSP, PM₁₀, PM₄, PM_{2.5}, PM₁ and particle number distribution. The only PM analyzer with approval for 1-minute values of PM₁₀ and PM_{2.5}; all environmental conditions and locations. **Scattered light detection of single particles (full-flow analysis)**

SOLUTIONS FOR RELIABLE MEASUREMENTS AT ALL LOCATIONS

	<p>ProCeas AIR Measuring range: NH₃, HF, HCl (ppt to ppm); CH₄, N₂O, CO₂, HCHO, H₂S (ppb to ppm) Application: Gas analysis for greenhouse gases, ammonia precursor of PM, air pollution Feature: Remote access, optics cleanable at site, fast response time with LPS</p>	
	<p>EDM 280 Measuring range: 178 nm to 29.4 µm, TSP, PM₁₀, PM₄, PM_{2.5}, PM₁ simultaneously Application: EN 16450 certified environmental dust monitor for measuring networks Feature: Only monitor with EN approved 1 minute measurement interval</p>	
	<p>EDM 264 Measuring range: 253 nm to 35.15 µm Application: Mobile particulate matter measurements in its own weatherproof housing Feature: TSP, PM₁₀, PM₄, PM_{2.5}, PM₁, particle number distribution, inhalable, thoracic, respirable</p>	
	<p>EDM 264-SVC Measuring range: 253 nm to 35.15 µm, without SVC (semi-volatile compounds) Application: Mobile particulate matter measurements in its own weatherproof housing Feature: See EDM 264, catalytic stripper to remove the SVC</p>	
	<p>EDM 465 Measuring range: Number concentration D₅₀ = 4 nm or D₅₀ = 10 nm Application: Mobile outdoor air measurement Feature: 24/7 to 30 days, own weatherproof housing</p>	
	<p>5421-TR-CEN 19" CPC Measuring range: Number concentration D₅₀ = 10 nm Application: Stationary outdoor air measurement in measuring station Feature: CEN EN 16976, 19-inch version</p>	
	<p>5420-TR-CEN 19" SMPS+C Measuring range: 10 nm to 1094 nm Application: Stationary outdoor air measurement in measuring station Feature: CEN/TS 17434:2020, large touch-screen</p>	

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